

Optical tape length measurement for electronic tape recorders

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Equivalents:

Abstract

An indication of the length of tape which has already run is very useful for audio tape recorders. In order to be able to realise something like this without mechanical parts, the tape itself must bear the appropriate control information. To protect the useful information on the tape, the control information is applied on the rear side of the tape. This is performed with the aid of marking lines at intervals of one metre, which are sensed by an optical sensor and electronically counted. In this way a methodical position indication of the tape and automatic positioning (by metres and centimetres) are made possible. The contactless method rules out any impairment being caused by abrasion.

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Carlson Silviu

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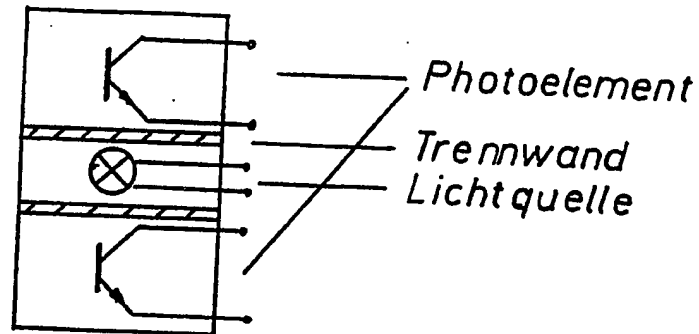


Fig. 1

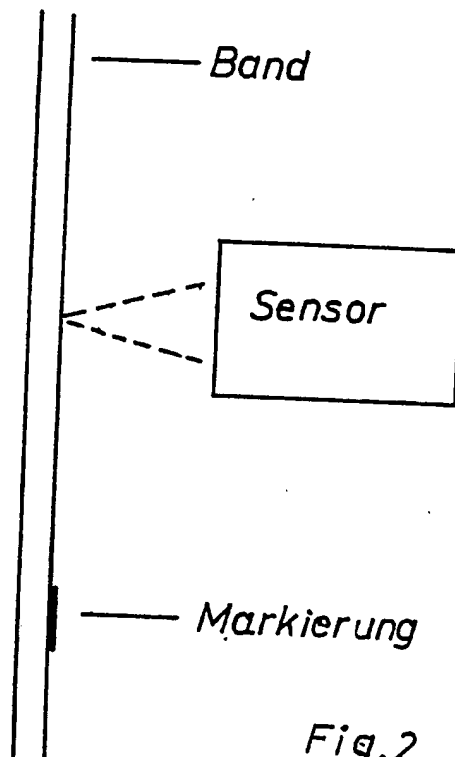


Fig. 2

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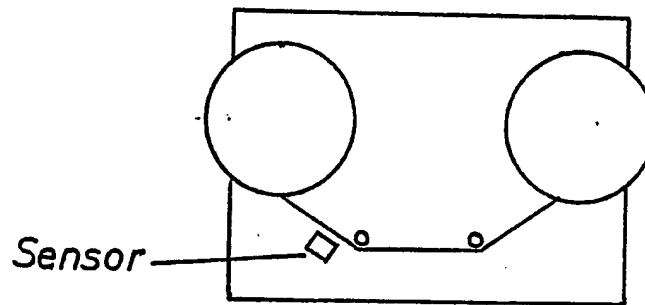


Fig. 3

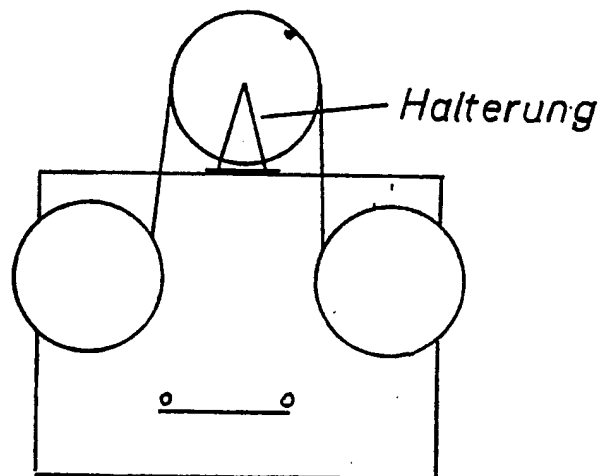


Fig. 5

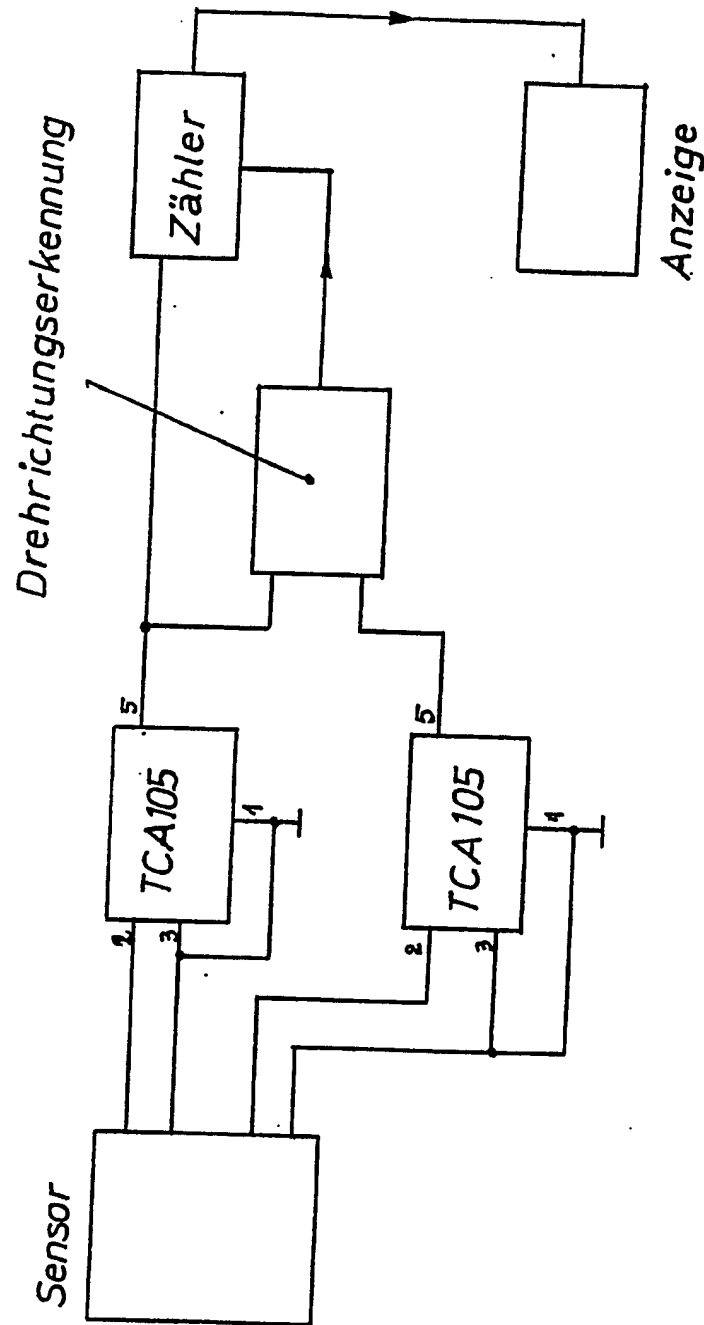


Fig.4